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	CENTRAL INTELLIGENCE AGENCY INFORMACOURING AGENCY	REPORT
OUNTRY	Germany (Russian Zone)	DATE DISTR. 2 August 1948 50X1-HUN
UBJECT	Shipment of Tools from the Oberspreewerk to the USSR; Work in Progress in Department 111 of the Oberspreewerk as of 31 May 1948	NO. OF PAGES &
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ATE OF THE		SUPPLEMENT TO REPORT NO.
of the United States U. S. C., 31 and 32. AS O S. It's Contents in ai Moited by Law. Rep Ever. Information Co	NS ANDOMATION AFFECTING THE MATIONAL DEFENSE WITHIN THE MEANING OF THE SEPTEMBER ASSOCIATION AND AFFECTING THE SEPTEMBER ASSOCIATION AND AFFECTING AND INAUTIONIZED PROSENT IS POOR PRODUCTION OF THIS FORM IS PROPRIED. HOW. NOTABLE IN BODY OF THE FORM MAY BE UTILIZED BY THE RECEIVING AGENCY. WE RECEIVING AGENCY.	NFORMATION FOR THE D INTELLIGENCE ANALYS
1.	At least one set of all the tools required for the manufacture of each tube developed at the Oberspreewerk has been sent to the USSR. In the case of metal ceramic tubes, three sets of tools have been sent for each type of tube.	
2.	The component parts for a total of 800 of the various types of metal ceramic tutes are being sent every three months to the USSR. It is believed in the factory that the destination is Movosibirsk, via Moscow.	
3.	It appears from correspondence that the Russians have made good progress in the manufacture of all the component parts of these tubes, except for the ceramic parts. This is a result of the lack of special earths in the USSE.	
4.	No tools for the making of the T.S. 41 are being sent to the USSR. These tubes are only for the rapeutic purposes and will in future to manufactured chiefly at the former Telefunken Works in Erfurt, to whom the plans and the tools for the manufacture have been sent from the OST.	
5.	Sixty percent of the completed T.S. 41 are being shipped to the USSR as reparations. The following is a report on work in progress in Department 111 on 31 May 1948.	
6.	Plan Nr. 33: 6 cm. Triode	
	A prototype has been completed, but has not yet been tested for high frequency. The difficulties which had appeared with the final casting were overcome by a reinforcement. The body of the frame will, in the future, be drawn out in a new way and provided with a small flange. The difficulties appeared in the following manner: In the final casting the body of the frame became too hot and leakages developed in the ceramic casting. Further, a new burner with 6.3V heat-tension (Heissspannung) was developed. Results with the new burner are expected in about fourteen days.	
	Plan Nr. 34: LD 6 20 cm.	en nays. A
	The problem with the delivery of twenty tubes ha	s been settled. $\stackrel{\frown}{\underline{\square}}$ $\stackrel{\frown}{\underline{\square}}$
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Plan Nr. 5%: Capacity Equalizing Apparatus

The work of construction is finished. The workshop work has begun. The lock-smith work for the frame has been let out on subcontract.

Plan Nr. 57: Measuring of Thermic Grid Currents

Undergoing tests.

Plan Nr. 04: Emission Measuring Table

Completed for shipment.

(Plan Number Not Stated): Triangular Cathode (5D 21)

The work on this problem proceeds normally. The difficulties relative to poor emission and faulty ceramic insulation resulting from vaporized metals are still not eliminated.

Plan Nr. 06: LG 11

Moulding and pump research are still carried out. Further, there are constructions in progress at lowered anode — cathode interval; at the same time, the cathode paste has a layer thickness of 40 as opposed to 30 ain the former product.

Plan Nr. 09: Metal Ceramic Bolometer

In the meantime, about 40 bolometers were made void of air, of which about 15 are airtight. There are still difficulties with the squeezing-off of the pump stem, which should be overcome any moment through various experiments.

Plan Nr. 07: Fight-Slot Magnetron

The preparations for drilling the anodes are completed. The first anode is already bored and soldered. Difficulties appeared chiefly with the soldering of the anode parts because the beryllium-copper alloy did not take the silver solder. These difficulties were overcome by electroplating the anode parts with copper.

The first products will probably be completed by about 20 June 1948.

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